Public Health – Seattle & King County
Environmental Health Division

DESIGN CHECKLIST
ON-SITE SEWAGE SYSTEM (OSS)

The following checklist is a guide to assist the designer in submitting a complete site design application. A properly prepared site application must include the items listed below along with any additional details and specifications required by applicable provisions of The Code of the King County Board of Health – Title 13. **The designer must insure that all materials and documents submitted are legible and properly collated. A minimum of four complete design applications/sets must be submitted.**

SITE ADDRESS: _____

PARCEL NUMBER: ☐☐☐☐☐☐☐☐☐☐

		Yes	No
SITE DESIGN APPLICATION FORM			
	The form is complete, submitted in quadruplicate, and accompanied by the appropriate fee. ***Data on all copies must be legible.***		
	Reference maps are provided (vicinity, location and routing to site)		
SOIL AND SITE EVALUATION			
	Soil logs (minimum of 4 per site) – properly located, sized, constructed and maintained (i.e. to preclude safety hazards) - are installed		
	An accurate description of soil conditions is provided		
	Texture, structure, compaction and affect on treatment and water movement potential is indicated		
	The USDA (SCS) soil classification is used		
	Description of structurally deficient soils (if present) is included		
	Description and location of sensitive areas (if present) is included		
	All encumbrances affecting OSS placement have been identified		
	wells, other water sources, water supply lines		
	seasonal water		
	surface water		
	abandoned wells		
	restrictive layer and/or bedrock outcrops		
	existing buildings, property lines		
	drainage structures (e.g. footing drains, curtain drains, drainage ditches)		
	cuts, banks, and fills		
	driveways and parking areas		
	existing OSS		
	underground utilities		
	others not listed above		
PARCEL PLOT PLAN			
	A 1"=20' scale or larger scale is used. The parcel plot plan is presented on paper that is 11" x 17" or smaller.		
	A North arrow is indicated on the plan		
	The location and description of design control point(s) are indicated		
	Property and easement lines are shown, (specific lengths are indicated)		
	Topographical contours at 2' intervals are shown		

Design Checklist (Cont.)

		Yes	No
	Direction of surface drainage is shown		
	Size of building is indicated		
	The maximum building footprint area(s) is/are shown		
	The plans shows existing structures present (on site)		
	Plan shows the location of wastewater tank(s)		
	Primary and reserve SAS are shown on the plot plan		
	The boundaries of the SAS detail drawing are indicated		
	All installed soil logs are shown on plan		
	The plan shows the location of existing or proposed potable water source		
	If present, neighboring wells within 100 feet; and other sources within 200 feet are shown		
CONSTRUCTION PLANS AND SPECIFICATIONS			
	The plumbing stub elevation is indicated		
	Vertical section detail drawings are provided		
	The Dimensions of wastewater tank details are provided		
	Minimum and maximum elevation of installation is specified		
	Maximum depth of cover to be placed over tank(s) is indicated		
	The seasonal groundwater table elevation at the tank locations is Acceptable		
	The depth of required bedding material is specified		
	Minimum and maximum drainfield width specified		
	Minimum and maximum drainfield depth specified		
	Vertical separation is indicated		
	The amount of cover material and details for placement is indicated		
	Other OSS components to be constructed at the site are included		
	Construction plans show pre-installation protection of areas designated for OSS components and any down slope effluent absorption area		
	Construction specifications are included for sand-based treatment system on non-level/restricted site		
SOIL ABSORPTION SYSTEM (SAS) DETAIL DRAWING			
	The drawing uses/represents a 1”=20’ scale. Maximum paper size is 11”x17”		
	Design control points are depicted		
	The drawing shows the location and dimensions of all components of the primary and reserve systems		
	Trench widths are shown		
	Trench lengths are shown		
	Horizontal separations are indicated		
	Slopes in primary and reserve areas and of location proposed for sand-based treatment component (e.g. sand filter) are indicated		
	The design includes specifications for reserve components (i.e. when the proposed elevation of the reserve area is above the septic outlet)		
	The drawing specifies setbacks to proposed or existing water lines		

Design Checklist (Cont.)

		Yes	No
PROPOSED NON-WASTEWATER DRAINS			
	Application includes construction details for and location of:		
	Footing drains		
	Curtain drains		
	Interceptor drains		
DOSING SYSTEM SPECIFICATIONS			
	Primary pump chamber specifications are indicated		
	Secondary pump chamber/pumpwell dosing specifications are indicated		
WATER SUPPLY			
	A valid water availability letter (if applicable) is included		
	The water supply is sited in an approved location		
	Source protection covenant(s) is/are recorded		
	The quality of the water is in compliance		
	The quantity produced by the source is in compliance		
OTHER			
	The design meets applicable guidelines and/or Health Department policy and procedure		
	Applicable covenant(s) are recorded per code		
	Non-single family proposals Covenants indicating that property will remain under one ownership is/are recorded		
	The sewage entering the OSS meets the criteria as non-industrial Wastewater		
	The OSS effluent contacting the infiltrative surface will have typical residential characteristics		
	Plans for system operation monitoring and maintenance are included (Title 13, Chapter 13.60)		